



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/813,549

DATE: 08/23/2004

TIME: 11:14:08

Input Set : A:\16743-004001.ST25.txt

Output Set: N:\CRF4\08232004\J813549.raw

4 <110> APPLICANT: Liao, You-Di
 6 <120> TITLE OF INVENTION: Removal of N-terminal Methionine From Proteins by
 7 Engineered Methionine Aminopeptidase
 9 <130> FILE REFERENCE: 16743-004001
 11 <140> CURRENT APPLICATION NUMBER: US 10/813,549
 12 <141> CURRENT FILING DATE: 2004-03-29
 14 <160> NUMBER OF SEQ ID NOS: 21
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 264
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Escherichia coli
 23 <400> SEQUENCE: 1
 24 Met Ala Ile Ser Ile Lys Thr Pro Glu Asp Ile Glu Lys Met Arg Val
 25 1 5 10 15
 26 Ala Gly Arg Leu Ala Ala Glu Val Leu Glu Met Ile Glu Pro Tyr Val
 27 20 25 30
 28 Lys Pro Gly Val Ser Thr Gly Glu Leu Asp Arg Ile Cys Asn Asp Tyr
 29 35 40 45
 30 Ile Val Asn Glu Gln His Ala Val Ser Ala Cys Leu Gly Tyr His Gly
 31 50 55 60
 32 Tyr Pro Lys Ser Val Cys Ile Ser Ile Asn Glu Val Val Cys His Gly
 33 65 70 75 80
 34 Ile Pro Asp Asp Ala Lys Leu Leu Lys Asp Gly Asp Ile Val Asn Ile
 35 85 90 95
 36 Asp Val Thr Val Ile Lys Asp Gly Phe His Gly Asp Thr Ser Lys Met
 37 100 105 110
 38 Phe Ile Val Gly Lys Pro Thr Ile Met Gly Glu Arg Leu Cys Arg Ile
 39 115 120 125
 40 Thr Gln Glu Ser Leu Tyr Leu Ala Leu Arg Met Val Lys Pro Gly Ile
 41 130 135 140
 42 Asn Leu Arg Glu Ile Gly Ala Ala Ile Gln Lys Phe Val Glu Ala Glu
 43 145 150 155 160
 44 Gly Phe Ser Val Val Arg Glu Tyr Cys Gly His Gly Ile Gly Arg Gly
 45 165 170 175
 46 Phe His Glu Glu Pro Gln Val Leu His Tyr Asp Ser Arg Glu Thr Asn
 47 180 185 190
 48 Val Val Leu Lys Pro Gly Met Thr Phe Thr Ile Glu Pro Met Val Asn
 49 195 200 205
 50 Ala Gly Lys Lys Glu Ile Arg Thr Met Lys Asp Gly Trp Thr Val Lys
 51 210 215 220
 52 Thr Lys Asp Arg Ser Leu Ser Ala Gln Tyr Glu His Thr Ile Val Val
 53 225 230 235 240

ENTERED

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54 Thr Asp Asn Gly Cys Glu Ile Leu Thr Leu Arg Lys Asp Asp Thr Ile
55 245 250 255
56 Pro Ala Ile Ile Ser His Asp Glu
57 260
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 30
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: primer
68 <400> SEQUENCE: 2
69 cgccggagctc gatcccgca aattaatacg 30
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 57
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: primer
79 <400> SEQUENCE: 3
80 cttgatttag atagccatta tctccttctt aaagttaaac aaaatttattt ctagagg 57
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 33
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: primer
90 <400> SEQUENCE: 4
91 ccggaagctt ttattcgctcg tgcgagattt tcg 33
93 <210> SEQ ID NO: 5
94 <211> LENGTH: 12
95 <212> TYPE: PRT
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: synthetic oligopeptide
101 <400> SEQUENCE: 5
102 Met Ala Asp Trp Leu Thr Phe Gln Lys Lys His Ile
103 1 5 10
106 <210> SEQ ID NO: 6
107 <211> LENGTH: 12
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: synthetic oligopeptide
114 <400> SEQUENCE: 6
115 Met Gln Asp Trp Leu Thr Phe Gln Lys Lys His Ile
116 1 5 10
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 4
121 <212> TYPE: PRT

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Input Set : A:\16743-004001.ST25.txt
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122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: synthetic oligopeptide
127 <400> SEQUENCE: 7
128 Met Ala Asp Tyr
129 1
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 6
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: synthetic oligopeptide
140 <400> SEQUENCE: 8
141 Met Ala Asp Tyr Leu Thr
142 1 5
145 <210> SEQ ID NO: 9
146 <211> LENGTH: 6
147 <212> TYPE: PRT
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: synthetic oligopeptide
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155 1 5
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 5
160 <212> TYPE: PRT
161 <213> ORGANISM: Escherichia coli
163 <400> SEQUENCE: 10
164 Met Gln Asp Trp Leu
165 1 5
168 <210> SEQ ID NO: 11
169 <211> LENGTH: 5
170 <212> TYPE: PRT
171 <213> ORGANISM: Escherichia coli
173 <400> SEQUENCE: 11
174 Met Gln Asp Trp Glu
175 1 5
178 <210> SEQ ID NO: 12
179 <211> LENGTH: 5
180 <212> TYPE: PRT
181 <213> ORGANISM: Escherichia coli
183 <400> SEQUENCE: 12
184 Met Gln Asp Trp Asp
185 1 5
188 <210> SEQ ID NO: 13
189 <211> LENGTH: 5
190 <212> TYPE: PRT
191 <213> ORGANISM: Escherichia coli

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Input Set : A:\16743-004001.ST25.txt
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193 <400> SEQUENCE: 13
194 Met Gln Asp Trp Ala
195 1 5
198 <210> SEQ ID NO: 14
199 <211> LENGTH: 5
200 <212> TYPE: PRT
201 <213> ORGANISM: Escherichia coli
203 <400> SEQUENCE: 14
204 Met Gln Ala Trp Ala
205 1 5
208 <210> SEQ ID NO: 15
209 <211> LENGTH: 5
210 <212> TYPE: PRT
211 <213> ORGANISM: Escherichia coli
213 <400> SEQUENCE: 15
214 Met Ala Ala Trp Ala
215 1 5
218 <210> SEQ ID NO: 16
219 <211> LENGTH: 5
220 <212> TYPE: PRT
221 <213> ORGANISM: Escherichia coli
223 <400> SEQUENCE: 16
224 Met Ala Pro Trp Ala
225 1 5
228 <210> SEQ ID NO: 17
229 <211> LENGTH: 5
230 <212> TYPE: PRT
231 <213> ORGANISM: Escherichia coli
233 <400> SEQUENCE: 17
234 Met Gln Asn Trp Glu
235 1 5
238 <210> SEQ ID NO: 18
239 <211> LENGTH: 5
240 <212> TYPE: PRT
241 <213> ORGANISM: Escherichia coli
243 <400> SEQUENCE: 18
244 Met Gln Asn Trp Ala
245 1 5
248 <210> SEQ ID NO: 19
249 <211> LENGTH: 5
250 <212> TYPE: PRT
251 <213> ORGANISM: Escherichia coli
253 <400> SEQUENCE: 19
254 Met Gln Asp Trp Ala
255 1 5
258 <210> SEQ ID NO: 20
259 <211> LENGTH: 5
260 <212> TYPE: PRT
261 <213> ORGANISM: Escherichia coli

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Input Set : A:\16743-004001.ST25.txt
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263 <400> SEQUENCE: 20
264 Met Leu Ala Gly Ala
265 1 5
268 <210> SEQ ID NO: 21
269 <211> LENGTH: 5
270 <212> TYPE: PRT
271 <213> ORGANISM: Escherichia coli
273 <400> SEQUENCE: 21
274 Met Gln Asp Ile Leu
275 1 5

VERIFICATION SUMMARY DATE: 08/23/2004
PATENT APPLICATION: US/10/813,549 TIME: 11:14:09

Input Set : A:\16743-004001.ST25.txt
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